

Substitute for form 1449A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 3

## Complete if Known

Application Number	10/630,138
Filing Date	July 29, 2003
First Named Inventor	Charles D. Gollnick
Art Unit	2682 2618
Examiner Name	P. Schubert
Attorney Docket Number	14206US02

## U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
✓	A1	US-3781815	12-25-1973	Boudreau et al.	
✓	A2	US-4164628	08-14-1979	Ward et al.	
✓	A3	US-4332027	05-25-1982	Malcom et al.	
✓	A4	US-4414661	11-08-1983	Karlstrom	
✓	A5	US-4630314	12-16-1986	Smith	
✓	A6	US-4644532	02-17-1987	George et al.	
✓	A7	US-4663706	05-05-1987	Allen et al.	
✓	A8	US-4679244	07-07-1987	Kawasaki et al.	
✓	A9	US-4725992	02-16-1988	McNatt et al.	
✓	A10	US-4736461	04-05-1988	Kawasaki et al.	
✓	A11	US-4747126	05-24-1988	Hood et al.	
✓	A12	US-4748658	05-31-1988	Gopal et al.	
✓	A13	US-4837858	06-06-1989	Ablay et al.	
✓	A14	US-4864559	09-05-1989	Perlman	
✓	A15	US-4884266	11-28-1989	Pflaumer	
✓	A16	US-4885780	12-05-1989	Gopal et al.	
✓	A17	US-4916726	04-10-1990	Morley, Jr. et al.	
✓	A18	US-4926064	05-15-1990	Tapang	
✓	A19	US-4942552	07-17-1990	Merrill et al.	
✓	A20	US-4984247	01-08-1991	Kaufmann et al.	
✓	A21	US-5008882	04-16-1991	Peterson et al.	
✓	A22	US-5018133	05-21-1991	Tsukakoshi et al.	
✓	A23	US-5027427	06-25-1991	Shimizu	
✓	A24	US-5031098	07-09-1991	Miller et al.	
✓	A25	US-5056085	10-08-1991	Vu	
✓	A26	US-5099509	03-24-1992	Morganstein et al.	
✓	A27	US-5103461	04-07-1992	Tymes	
✓	A28	US-5117422	05-26-1992	Hauptschein et al.	
✓	A29	US-5128932	07-07-1992	Li	
✓	A30	US-5142531	08-25-1992	Kirby	
✓	A31	US-5142534	08-25-1992	Simpson et al.	
✓	A32	US-5150360	09-22-1992	Perlman et al.	

Examiner Signature	<i>Paul J. [Signature]</i>	Date Considered	4/28/06
-----------------------	----------------------------	--------------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Approved for use through 07/31/2008. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

**2**

3

**Complete if Known**

Application Number

**10/630,138**

**Filing Date**

**July 29, 2003**

**First Named Inventor**

**Charles D. Gollnick**

**Art Unit**

~~2004~~ 2618

**Examiner Name**

P. Sobutky

**Attorney Docket Number**

14206US02

**U.S. PATENT DOCUMENTS**

[illegible]

**Examiner  
Signature**

Date Considered

4/28/06

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

**If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.**

Substitute for form 1449B/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT<sup>1</sup></b> (Use as many sheets as necessary)		Application Number	10/630,138
		Filing Date	July 29, 2003
		First Named Inventor	Charles D. Gollnick
		Art Unit	2684 2618
		Examiner Name	P. Seburka
Sheet	3	Attorney Docket Number	14206US02

U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. <sup>1</sup>	Document Number Number - Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS						
Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
W	B1	EP-281334	—	—		
W	B2	WO-9202084	—	—		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
W	C1	L. KLEINROCK and F.A. TOBAGI, "Packet Switching in Radio Channels; Part IV-Stability Considerations and Dynamic Control in Carrier Sense Multiple Access," IEEE Transactions on Communications, vol. COM-25, No. 10, Oct. 1977.	
W	C2	M. B. PURSLEY, "The Role of Spread Spectrum in Packet Radio Networks," Proceedings of the IEEE, vol. 75, No. 1, Jan. 1987.	
W	C3	J. O. ONUNGA and R. W. DONALDSON, "Performance Analysis of CSMA with Priority Acknowledgements (CSMA/PA) on Noisy Data Networks with Finite User Population," IEEE Transactions on Communications, vol. 39, No. 7, Jul. 1991.	
W	C4	L. KLEINROCK and J. SILVESTER, "Spatial Rouse in Multihop Packet Radio Networks," Proceedings of the IEEE, vol. 75, No. 1, Jan. 1987.	
W	C5	International Standard ISO/DIS 8802-2.2.	
W	C6	A. S. TANENBAUM, "Computer Networks," Prentice Hall, Second Edition.	
W	C7	D.E. COMER, "Internetworking with TCP/IP", Prentice Hall.	

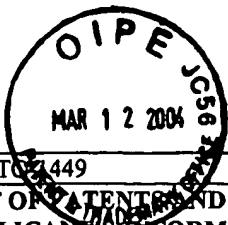
Examiner Signature	<i>Phil J. J. J.</i>	Date Considered	4/28/06
--------------------	----------------------	-----------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



FORM PTO 449	SERIAL NO.: 10/630,138	CASE NO.: 1772/14206US02
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	FILING DATE: 07/29/03	GROUP ART UNIT: 246- 2618
(use several sheets if necessary)	APPLICANTS: Gollnick, et al.	

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS/ SUBCLASS	FILING DATE
~	A1	4,449,248	5/89	Leslie	---	
~	A9	4,794,649	12/88	Fujiwara	---	
~	A10	4,804,954	2/89	Ma. Nav.	---	
✓	A17	4,964,121	10/90	Maevr	---	
~	A19	4,977,611	12/90	Marg	---	
~	A20	4,995,099	2/91	Davis	---	
~	A22	5,025,486	6/91	Klughart	---	
~	A23	5,029,183	7/91	Tymcs	---	
~	A24	5,031,231	7/91	Miyazaki	---	
~	A26	5,055,659	10/91	Hendrick et al	---	
~	A28	5,081,402	10/91	Kolodg	---	
~	A29	5,087,099	2/92	Srelawczyk	---	
~	A31	5,119,502	6/92	Kallu et al	---	

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION YES	NO

EXAMINER INITIAL		OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)
✓	C2	Biba, <i>A Hybrid Wireless MAC Protocol Supporting Asynchronous and Synchronous MSDU Delivery Services</i> , IEEE P802.11/91-92
~	C4	Cheah, <i>A Proposed Architecture and Access Protocol Outline for the IEEE 802.11 Radio LAN Standards, Part II</i> , Document IEEE P802.11/91-54
~	C5	Cox, <i>A Radio System Proposal for Widespread Low-Power Tetherless Communications</i> , IEEE Transactions on Communications, Vol. 39, No. 2 (February 1991)
~	C6	Natarajan et al., <i>Battery Efficient Operation of Radio MAC Protocol</i> , Document IEEE P802.11/91-102
~	C7	Rypinski, <i>Power-Drain Considerations for Full Time and Sleep Mode Radio Receivers</i> , Document IEEE P802.11/91-99
~	C8	Robert Meier's Masters Thesis, <i>Mobile Computer Network Architecture</i> (May 1993)

EXAMINER: <i>Phil J. Liu</i>	DATE CONSIDERED: 4/28/06
------------------------------	--------------------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449	SERIAL NO.: 10/630,138	CASE NO.: 1772/14206US02
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	FILING DATE: 07/29/03	GROUP ART UNIT: <del>2746</del> 2618
(use several sheets if necessary)	APPLICANTS: Gollnick, et al.	

## REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS/ SUBCLASS	FILING DATE
~	A32	5,121,408	6/92	Cg et al	—	
~	A33	5,123,029	6/92	Bantz	—	
~	A34	5,128,938	6/92	Bonas	—	
~	A35	5,134,347	7/92	Kellogg	—	
~	A37	5,150,361	9/92	Wiczorek et al	—	
~	A38	5,152,006	9/92	Klaus	—	
~	A41	5,175,870	12/92	Mahay	—	
~	A44	5,230,084	7/92	Mayer	—	
~	A46	5,241,542	8/93	Natarajan	—	
~	A47	5,241,691	8/93	Owari	—	
~	A51	5,265,270	11/93	Stringer	—	
~	A52	5,274,666	12/93	Dowd et al	—	
~	A53	5,276,680	1/94	Messenger	—	
~	A54	5,278,831	1/94	Mahay	—	
~	A57	5,293,639	3/94	Wilson	—	
~	A58	5,296,849	3/94	Id et	—	

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION YES	NO

EXAMINER INITIAL	OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)	
~	C14	Digital European Cordless Telecommunications Reference Document (March 1991)
~	C18	Haine, A New Radio Access Protocol and Network Architecture for Mobile Packet Data, 41 <sup>st</sup> IEEE Ventricular Technology Conference
~	C19	Owen, The DECT Radio Interface, Colloquium on CT2/CA1 AND DECT CORDLESS TELECOMMUNICATIONS (1990)
~	C22	Tuttlebee, Cordless Telecommunications in Europe (1990)

EXAMINER: <i>Phil J. L.</i>	DATE CONSIDERED: 4/28/00
-----------------------------	--------------------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449	SERIAL NO.: 10/630,138	CASE NO.: 1772/14206US02
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	FILING DATE: 07/29/03	GROUP ART UNIT: <del>2746</del> 2618
(use several sheets if necessary)	APPLICANTS: Gollnick, et al.	

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS/ SUBCLASS	FILING DATE
✓	A59	5,297,144	3/97	B. Heert	—	
✓	A63	5,361,397	11/94	W. gher	—	
✓	A66	5,373,506	12/94	Taylor	—	
✓	A67	5,390,206	2/95	Rein	—	
✓	A68	5,392,023	2/95	D'Avally	—	
✓	A76	5,440,560	8/95	Rybinski	—	
✓	A77	5,465,081	11/95	Todd	—	
✓	A84	5,584,048	12/96	Wierzbicki	—	
✓	A93	5,089,813	2/97	Delucchi	—	
✓	A96	5,239,466	8/93	Morgan	—	
✓	A101	5,375,254	12/94	Owen	—	
✓	A102	5,377,192	12/94	Gordon	—	
✓	A104	5,461,627	10/95	Rypinski	—	

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION YES	NO

EXAMINER INITIAL	OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER: <i>Phu J. Sh</i>	DATE CONSIDERED: 7/28/06
----------------------------	--------------------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

